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Product datasheet for RG222132

DNAJB5 (NM_012266) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAJB5 (NM_012266) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DNAJB5
Synonyms:	Hsc40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG222132 representing NM_012266
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGAAAAGATTATTACAAGATTCTTGGGATCCCATCGGGGGCCAACGAGGATGAGATCAAGAAAGCCT
ACCGGAAGATGGCCTTGAAGTACCACCCAGACAAGAATAAAGAACCCAACGCTGAGGAGAAGTTTAAGGA
GATTGCAGAGGCCTATGATGTGCTAAGTGACCCCAAGAAACGGGGCCTGTATGACCAGTATGGGGAGGAA
GGCCTGAAGACCGGCGGTGGCACATCAGGTGGCTCCAGTGGCTCCTTTCACTACACCTTTCATGGGGACC
CCCATGCCACCTTTGCCTCCTTCTTTGGTGGCTCCAACCCCTTCGATATCTTCTTTGCCAGCAGCCGCTC
CACTCGGCCCTTCAGTGGCTTTGACCCAGATGACATGGATGTGGATGAAGATGAGGACCCATTTGGCGCT
TTCGGCCGTTTTGGCTTCAATGGGCTGAGTAGGGGTCCAAGGCGAGCCCCAGAACCACTGTACCCTCGGC
GCAAGGTGCAGGACCCCCCAGTGGTGCACGAGCTGCGGGTGTCCCTGGAGGAGATCTACCATGGCTCCAC
CAAGCGCATGAAGATCACAAGGCGTCGCCTCAACCCTGATGGGCGAACTGTGCGCACCGAGGACAAGATC
CTGCACATAGTCATCAAGCGTGGCTGGAAGGAAGGCACCAAGATCACCTTCCCCAAAGAAGGCGACGCCA
CACCTGACAACATCCCTGCTGACATCGTCTTTGTGCTCAAAGACAAGCCCCATGCACACTTCCGCCGAGA
TGGCACCAACGTGCTCTACAGTGCCCTGATCAGCCTCAAGGAGGCGCTGTGTGGCTGCACTGTGAACATT
CCCACTATCGACGGCCGAGTGATCCCTTTGCCCTGCAATGATGTCATCAAGCCAGGCACCGTGAAGAGAC
TCCGTGGGGAGGGCCTTCCCTTCCCCAAAGTGCCAACTCAGCGAGGAGACCTCATTGTTGAGTTCAAAGT
TCGCTTCCCAGACAGATTAACACCACAGACAAGACAGATCCTTAAGCAGCACCTACCCTGTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

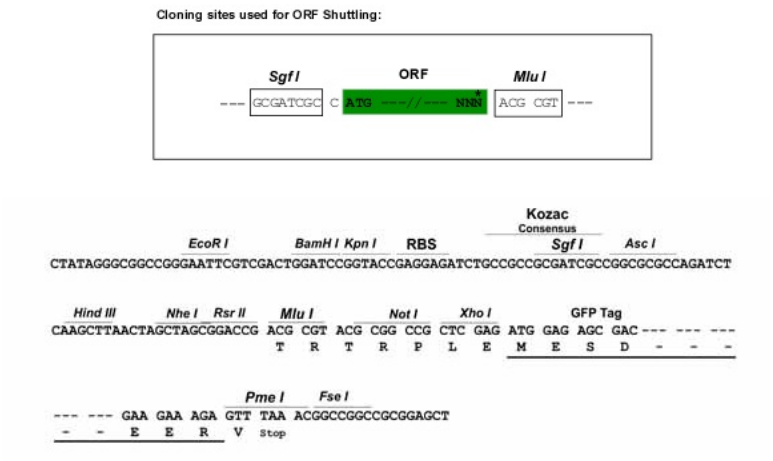
>RG222132 representing NM_012266
Red=Cloning site Green=Tags(s)

MGKDYYKILGIPSGANEDEIKKAYRKMALKYHPDKNKEPNAEEKFKEIAEAYDVLSDPKKRGLYDQYGEE
GLKTGGGTSGGSSGSFHYTFHGDPHATFASFFGGSNPFDIFFASSRSTRPFSGFDPDDMDVDEDEDPFGA
FGRFGFNGLSRGPRRAPEPLYPRRKVQDPPVVHELRVSLEEIYHGSTKRMKITRRRLNPDGRTVRTEDKI
LHIVIKRGWKEGTKITFPKEGDATPDNIPADIVFVLKDKPHAHFRRDGTNVLYSALISLKEALCGCTVNI
PTIDGRVIPLPCNDVIKPGTVKRLRGEGLPFPKVPTQRGDLIVEFKVRFPDRLTPQTRQILKQHLPCS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012266

ORF Size: 1044 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_012266.6

RefSeq Size: 2462 bp

RefSeq ORF: 1047 bp

Locus ID: 25822

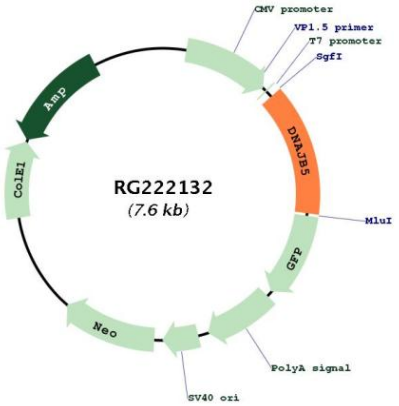
UniProt ID: O75953

Cytogenetics: 9p13.3

Domains: DnaJ, DnaJ_C

Gene Summary: This gene encodes a member of the DNAJ heat shock protein 40 family of co-chaperone proteins. The encoded protein contains an N-terminal DNAJ domain and a C-terminal substrate binding domain but lacks the cysteine-rich domain found in other DNAJ family members. In mice, a multi-protein complex containing this protein, thioredoxin 1, and histone deacetylase 4, serves as a master negative regulator of cardiac hypertrophy. [provided by RefSeq, Mar 2017]

Product images:



Circular map for RG222132